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Cc: Christner, Jan[Jan.Christner@WestonSolutions.com]
From: Petri, Elliott
Sent: Fri 6/5/2015 8:06:53 PM
Subject: RnB - Injection Through bulkhead

Hi Steve,

I discussed the possibility of injecting ethanol into the bulkhead at the Red and Bonita the mine with one of our engineers, he says that it is feasible and recommended a company that could come up with a system to deliver this. Would you like me to contact them for an estimate on what it would take cost wise?

However, for injecting molasses it looks like it is not very feasible, the recommendations for pumping molasses are that it be heated to 90 - 100 degrees Fahrenheit and use a 2 inch line at a minimum. Additionally, due to the distance it would have to be pumped, the temperature, and friction loss due to viscosity these make it an expensive endeavor.

Please let me know how you would like to proceed with the ethanol option.

Thanks,

Elliott

Elliott Petri, PE

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